

01124000 QUINEBAUG RIVER AT QUINEBAUG, CT--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical analyses available for water years 1953 (WSP 1290), 1960 (WSP 1741), 1963 (WSP 1941), 1969 (WSP 2143). Water temperatures available for water year 1960 (WSP 1741). 1980 to current year.

## PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1959 to September 1960, October 1968 to September 1969.

pH: October 1959 to September 1960, October 1968 to September 1969.

WATER TEMPERATURES: October 1959 to September 1960, October 1968 to September 1969.

DISSOLVED OXYGEN: October 1959 to September 1960, October 1968 to September 1969.

REMARKS.--Samples for dissolved aluminum and zinc collected from May through September 2000 were reanalyzed because of possible contamination in the lab; those samples that could not be reanalyzed have been updated to the original concentration with a "less-than" (<) data qualifier.

## EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 308 microsiemens Jan. 31, 1969; minimum, 49 microsiemens April 2, 1960.

pH: Maximum, 7.7 units June 14, 1969; minimum, 5.8 units July 18, 1969.

WATER TEMPERATURES: Maximum, 30.5°C July 16, 1969; minimum, 0.0°C on many days during December to March.

DISSOLVED OXYGEN: Maximum, 15.1 mg/L Dec. 28, 1968; minimum, 1.4 mg/L Sept. 7, 1969.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

		DIS- CHARGE, INST. CUBIC FEET	SPE- CIFIC CON- DUCT- DUCT- ANCE	PH WATER WHOLE FIELD	TEMPER- (STAND- ARD UNITS)	TEMPER- TURE AIR WATER	TUR- BID- ITY	CHLOR-A PHYTO- PLANK-	CHLOR-B PHYTO- PLANK-	OXYGEN, DIS- SOLVED (PER- CENT)		
DATE	TIME	PER SECOND (00061)	(US/CM) (00095)	(US/CM) (90095)	(00400)	(DEG C) (00020)	(DEG C) (00010)	(NTU) (00076)	(UG/L) (70953)	(UG/L) (70954)	(MG/L) (00300)	(00301)
NOV 02...	1030	214	152	154	7.3	18.5	11.5	2.3	--	--	11.1	104
JAN 26...	1140	702	160	160	7.6	1.0	.0	1.3	--	--	14.3	100
MAR 21...	1035	499	145	146	7.5	3.5	5.0	2.0	--	--	12.7	99
APR 04...	0845	334	143	--	7.1	15.0	10.5	2.2	--	--	10.0	93
MAY 22...	0930	363	131	132	7.6	16.5	13.5	2.9	1.2	<.1	10.1	98
JUN 27...	0945	140	136	146	7.5	28.5	25.0	3.1	2.1	<.1	7.9	98
JUL 10...	1015	16	175	184	7.5	25.0	23.5	3.3	3.7	.5	8.1	99
24...	0900	47	165	--	7.6	--	22.0	--	1.9	<.1	8.4	96
AUG 07...	0930	89	157	--	7.2	--	22.0	--	2.4	E.2	7.9	92
08...	1015	86	160	162	7.6	31.0	25.0	2.2	2.3	E.2	8.4	103
21...	1015	47	170	--	7.4	--	20.0	--	.7	E.1	8.9	96
SEP 05...	0900	32	185	--	7.4	16.0	19.0	--	1.1	<.1	9.5	83
26...	1015	35	220	214	7.7	13.0	16.0	1.2	E.4	<.1	9.6	98

		COLI- FORM, FECAL, 0.45 UM-MF	ENTERO- COCCI ME,MF WATER	ENTERO- COCCI (MEI) MF 24 TOTAL	HARD- NESS CALCIUM TOTAL DIS-	MAGNE- SIUM, SODIUM, DIS-	POTAS- SIUM, DIS-	CAR- BONATE WATER	BICAR- BONATE WATER	ALKA- LINITY		
DATE		(COLS. / 100 ML) (31616)	(COL / 100 ML) (31649)	(COL / 100 ML) (90909)	(00900)	(00915)	(00925)	(00930)	(00935)	(00452)	(00453)	(39086)
NOV 02...	900	92	--	25	6.68	2.11	16.5	1.8	0	15	12	
JAN 26...	66	40	--	27	7.33	2.18	16.8	1.5	0	15	12	
MAR 21...	K270	45	--	19	5.14	1.59	16.7	1.2	0	8	7	
APR 04...	--	--	--	--	--	--	--	--	--	--	--	
MAY 22...	K80	--	21	20	5.44	1.66	14.4	1.1	0	11	9	
JUN 27...	1000	--	136	24	6.76	1.82	15.7	1.3	0	17	14	
JUL 10...	150	--	68	31	8.77	2.23	19.4	1.8	0	22	18	
24...	--	--	--	--	--	--	--	--	--	--	--	
AUG 07...	--	--	--	--	--	--	--	--	--	--	--	
08...	250	--	39	25	7.01	1.93	17.3	1.6	0	18	15	
21...	--	--	--	--	--	--	--	--	--	--	--	
SEP 05...	--	--	--	--	--	--	--	--	--	--	--	
26...	100	--	32	36	10.7	2.32	24.0	2.3	--	--	22	

## THAMES RIVER BASIN

01124000 QUINEBAUG RIVER AT QUINEBAUG, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	SULFATE DIS-	CHLO- RIDE, DIS-	FLUO- RIDE, DIS-	SILICA, SOLVED (MG/L AS SO4)	RESIDUE AT 180 (MG/L AS CL)	SOLIDS, AT 105 (MG/L AS F)	NITRO- GEN, NO2+NO3 (MG/L AS N)	NITRO- GEN, AMMONIA (MG/L AS N)	NITRO- GEN, DIS- ORGANIC (MG/L AS N)	NITRO- GEN, MONIA + ORGANIC (MG/L AS N)	
	SOLVED (MG/L AS)	SOLVED (MG/L AS)	SOLVED (00950)	DEG. C (00955)	DEG. C, (70300)	TOTAL (00500)	SOLVED (00613)	SOLVED (00631)	TOTAL (00608)	TOTAL (00605)	
	(00945)	(00940)	(00950)								
NOV 02...	10.0	26.0	<.1	5.5	99	95	<.010	.172	<.020	-- .33	
JAN 26...	10.5	30.0	<.1	9.4	99	95	.025	.293	.055	.37 .42	
MAR 21...	8.9	29.7	<.1	6.3	82	81	.015	.198	<.020	-- .27	
APR 04...	--	--	--	--	--	--	.013	.226	.021	.22 .24	
MAY 22...	6.7	25.5	<.1	3.8	80	82	<.010	.160	.020	.55 .57	
JUN 27...	6.9	24.7	<.1	4.8	88	90	<.010	.352	.028	.46 .49	
JUL 10...	5.7	32.4	<.1	4.8	109	111	<.010	.442	<.020	-- .43	
24...	--	--	--	--	--	--	<.010	.427	<.020	-- .41	
AUG 07...	--	--	--	--	--	--	.010	.377	<.020	-- .60	
08...	7.0	28.2	<.1	5.4	101	104	<.010	.335	<.020	-- .44	
21...	--	--	--	--	--	--	<.010	.386	<.020	-- .41	
SEP 05...	--	--	--	--	--	--	<.010	.375	<.020	-- .38	
26...	10.0	38.2	.1	4.4	118	119	<.010	.576	<.020	-- .30	
DATE	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS DIS- TOTAL (MG/L AS N)	PHOS- PHORUS SOLVED (MG/L AS P)	PHORUS DIS- SOLVED (MG/L AS P)	ALUM- ORTHO, DIS- SOLVED (UG/L AS AL)	ANTI- INUM, DIS- SOLVED (UG/L AS SB)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM, DIS- SOLVED (UG/L AS CD)	
	(00623)	(00600)	(00665)	(00666)	(00671)	(01106)	(01095)	(01005)	(01010)	(01025)	
	NOV 02...	.28	.50	.031	.010	<.010	14	<1	10	<1	<1.0
	JAN 26...	.22	.72	.036	.019	<.010	20	<1	11	<1	<1.0 <.8
MAR 21...	.17	.47	.009	E.003	<.010	21	<1	9	<1	<1.0	<1.0
APR 04...	.16	.46	.025	E.005	<.010	--	--	--	--	--	--
MAY 22...	.26	.73	.029	.011	<.010	<34	<1	9	<1	<1.0	<.8
JUN 27...	.32	.84	.056	.022	.010	22	<1	9	<1	<1.0	E.6
JUL 10...	.30	.87	.048	.018	.012	12	<1	10	<1	<1.0	<.8
24...	.30	.84	.049	.020	<.010	--	--	--	--	--	--
AUG 07...	.31	.98	.071	.022	<.010	--	--	--	--	--	--
08...	.34	.78	.047	.021	<.010	16	<1	8	<1	<1.0	<.8
21...	.31	.80	.042	.025	.010	--	--	--	--	--	--
SEP 05...	.33	.75	.033	.015	<.010	--	--	--	--	--	--
26...	.28	.88	.042	.016	<.010	8	<1	12	<1	<1.0	.8

## THAMES RIVER BASIN

01124000 QUINEBAUG RIVER AT QUINEBAUG, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
NOV 02...	<1	1	120	<1	27	<1	<1	<1	2	<1	6.5
JAN 26...	<1	<1	160	<1	37	<1	<1	<1	4	<1	4.0
MAR 21...	<1	<1	70	<1	30	<1	<1	<1	4	<1	3.5
APR 04...	--	--	--	--	--	--	--	--	--	--	5.8
MAY 22...	<1	1	250	<1	38	<1	<1	<1	<5	<1	5.8
JUN 27...	<1	1	290	<1	50	<1	<1	<1	3	<1	7.3
JUL 10...	<1	1	240	<1	56	<1	1	<1	2	<1	6.7
24...	--	--	--	--	--	--	--	--	--	--	--
AUG 07...	--	--	--	--	--	--	--	--	--	--	--
08...	<1	1	290	<1	35	<1	<1	<1	3	<1	6.7
21...	--	--	--	--	--	--	--	--	--	--	--
SEP 05...	--	--	--	--	--	--	--	--	--	--	--
26...	<1	1	190	<1	35	<1	<1	<1	2	<1	5.3